

tracking translational movement of the hand-held computer system via the motion sensor; and

updating the displayed certain portion of the virtual desktop in a manner correlated to the tracked movement of the hand-held computer system in relation to a substantially planar surface.

REMARKS

Examiner Chang is thanked for the office action of December 20, 2001 and for the in-person conference on April 5, 2002. Because the amended claims much better reflect the Applicant's invention, we believe the rejection(s) is no longer relevant. Amended independent claims 1, 32, 55, 83 and 99 (and all subsequent dependent claims) better reflect the invention as detailed in the specification and the addition of a term helps to define the actual meaning of the term "movement" in the independent claims.

103(a) rejections

The cited art (Motosyuku) uses only the motion of tilt, beyond a threshold theta, to substitute for scroll command inputs, whereas the Applicant's invention uses motion in the x, y (and z) planes to calculate the new rendering of the virtual desktop on the display device (a display portion). There is no suggestion in Motosyuku that planar motion be used for controlling the display or even the concept of a virtual desktop rendering, nor would translation (or planar) motion be possible in the tilt scroll command system and the tilt sensors taught by Motosyuku. In fact, the tilt motion of the cited art teaches away from the Cartesian (or alternate coordinate system) axis measurement, which requires the sensing of change of position of the device. Therefore, we do not believe any of the cited art can suggest a combination of teachings which render the Applicant's invention obvious.

CONCLUSION

Accordingly, Applicant respectfully requests the USPTO allow all claims 1-99 which are in condition for allowance. Should the Examiner believe that the cited art does in fact, cover the provisionally (discussed) language at the conference, a telephone conference would expedite the

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prosecution of this application and clarify language that identifies the clarification of the Applicant's invention over the prior art, the undersigned can be reached at the telephone number set out below.

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VERSION OF AMENDED CLAIMS SHOWING MARKED UP CHANGES

1. (once amended) A computer implemented method for assisting a user in the control and operation of a computer system, the computer system having a display device, the computer system providing information content for display, such information content potentially containing more content such as characters, pictures, lines, or pixels than can be conveniently displayed entirely on the display device at one time, the computer implemented method comprising the acts of:

coupling a display device to a computer system;

mapping information content generated by the computer system into a virtual desktop suitable for conveying the information to the user;

displaying a certain portion of the virtual desktop using the computer system's display device;

tracking translational movements of the display device; and

adjusting the displayed certain portion of the virtual desktop in a manner related to the tracked movements of the display device, whereby the user is able to traverse the entire information content mapped to the virtual desktop and examine any certain portion or segment of the information content using the computer system's display device.

32. (once amended) A method for visually navigating a virtual map generated by a physical map application executing upon a hand-held computer system, the hand-held computer system having a display device and a motion sensor, the method comprising the acts of:

transforming visual information generated by the physical map application into a virtual map suitable for display via the display device;

displaying a certain portion of the virtual map via the display device;

tracking translational movements of the hand-held computer system using the motion sensor; and

updating the displayed certain portion of the virtual map in a manner correlated to the tracked movement of the hand-held computer system.

55. A hand-held computer system comprising:

a digital processor;

a motion sensor coupled to a display device;

the display device coupled to the digital processor; and

a computer readable medium coupled to the digital processor, the computer readable medium having computer executable instructions for:

mapping visual information generated by the computer system into a virtual desktop suitable for display via the display device;

displaying a certain portion of the virtual desktop via the display device;

tracking translational movement of the hand-held computer system via the motion sensor; and

updating the displayed certain portion of the virtual desktop in a manner correlated to the tracked movement of the hand-held computer system.

83. A hand-held computer system comprising:

a digital processor;

a motion sensor coupled to a display device;

the display device coupled to the digital processor; and

a computer readable medium coupled to the digital processor, the computer readable medium having computer executable instructions for:

a physical map application;

transforming visual information generated by the physical map application into a virtual map suitable for display via the display device;

displaying a certain portion of the virtual map via the display device;

tracking translational movement of the hand-held computer system using the motion sensor; and

updating the displayed certain portion of the virtual map in a manner correlated to the tracked movement of the hand-held computer system.

99. A hand-held computer system comprising:

a digital processor;

a motion sensor coupled to the digital processor, the motion sensor capable of sensing motion relative to a substantially planar surface;

a display device coupled to the digital processor; and

a computer readable medium coupled to the digital processor, the computer readable medium having computer executable instructions for:

mapping visual information generated by the computer system into a virtual desktop suitable for display via the display device;

displaying a certain portion of the virtual desktop via the display device;

tracking translational movement of the hand-held computer system via the motion sensor; and

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updating the displayed certain portion of the virtual desktop in a manner correlated to the tracked movement of the hand-held computer system in relation to a substantially planar surface.